ANNEX 1

Sea Area A1 (Within range of shore-based VHF DSC coverage)

1 Does your Administration intend to establish Sea Area A1 ? YES ☐ NO ☐ Is it operational now ? YES ☐ NO ☐
If not operational now, indicate the date of operation in the following table.

2 Do they keep fulltime DSC watch on channel 70 ? YES ☐ NO ☐
If not, indicate watch hours in the following table.

3 Indicate details of VHF stations

NAV/ MET Area	Type (Main or Monitor ?)(1)	Name and position [Latitude, Longitude] of stations	MMSI	Range(2) (NM)	Date of Operation	Purpose (PC or SD or PS ?)(3)	Watch hours (24 hours on CH70 ?)	RCC Associated

(1) Monitored stations mean the stations remotely controlled by the main stations.
(2) Refer to resolution A.801(19). See appendix.
(3) PC = "Public Correspondence" only, SD = "Distress and Safety" only, PS = Both "Public Correspondence" and "Safety and Distress".

4 Provide a map indicating;
- Name and location of **main** VHF stations
- Coverage of main and monitored Transmitter & Receivers
- Name and location of associated RCC(s)

APPENDIX TO ANNEX 1

IMO RESOLUTION A.801(19) , annex 3, paragraph 2

Criteria for establishing GMDSS sea areas

2.3 Determination of radius A

2.3.1 The following formula should be used to calculate the range A in nautical miles:

$$A = 2.5(\sqrt{H(in-meters)} + \sqrt{h(in-meters)})$$

H is the height of the coast station VHF receiving antenna and h is the height of the ship's transmitting antenna which is assumed to be 4 m.

2.3.2 The following table gives the range in nautical miles (NM) for typical values of H:

h \ H	50 m	100 m
4 m	23 NM	30 NM

2.3.3 The formula given above applies to line-of-sight cases but is not considered adequate for cases where both antennae are at a low level. The VHF range in Sea Area A1 should be verified by field strength measurements.

ANNEX 2

Sea Area A2 (Within range of shore-based MF DSC coverage)

1 Does your Administration intend to establish Sea Area A2 ? YES ☐ NO ☐ Is it operational now ? YES ☐ NO ☐
If not operational now, indicate the date of operation in the following table.

2 Do they keep fulltime DSC watch on 2187.5 kHz ? YES ☐ NO ☐
If not, indicate watch hours in the following table.

3 Indicate details of MF stations

NAV/MET Area	Type (Main or Monitor ?)(1)	Name and position [Latitude, Longitude] of stations	MMSI	Range(2) (NM)	Date of Operation	Purpose (PC or SD or PS ?)(3)	Watch hours (24 hours on 2187.5kHz ?)	RCC Associated

(1) Monitored station means the station remotely controlled by the main station.
(2) Refer to resolution A.801(19). See appendix.
(3) PC = "Public Correspondence" only, SD = "Distress and Safety" only, PS = Both "Public Correspondence" and "Safety and Distress".

4 Provide a map indicating;
- Name and location of **main** MF stations
- Coverage of main and monitored Transmitter & Receivers
- Name and location of associated RCC(s)

APPENDIX TO ANNEX 2

IMO RESOLUTION A.801(19) , annex 3, paragraph 3

Criteria for establishing GMDSS sea areas

3.3 Determination of radius B

The radius B may be determined for each coast station by reference to Recommendation ITU-R PN.368-7 and CCIR Report 322 for the performance of a single sideband(J3E) system under the following conditions:

Frequency	- 2182 kHz
Bandwidth	- 3 kHz
Propagation	- ground wave
Time of day & Season	- (Administration should determine time periods and seasons appropriate to their geographic area based on prevailing noise level)
Ship's transmitter power(PEP)	- 60 W (See footnote to regulation IV/16(c)(i) of the 1981 amendments to the 1974 SOLAS Convention)
Ship's antenna efficiency	- 25 %
S/N(RF)	- 9 dB(voice)
Mean tttransmitter power	- 8 dB below peak power
Fading margin	- 3 dB

The range of sea area A2 should be verified by field strength measurements.

ANNEX 3

Sea Areas A3 and A4 (Outside of Sea Area A2)

1 Does your Administration intend to equip one or more HF DSC station ? YES ☐ NO ☐ Is it operational now ? YES ☐ NO ☐
If not operational now, indicate the date of operation in the following table.

2 Do they keep fulltime DSC watch on the bands ?

	YES	NO
4MHz (4207.5kHz)?	☐	☐
6MHz (6312kHz) ?	☐	☐
8MHz (8414.5kHz)?	☐	☐
12MHz(12577kHz) ?	☐	☐
16MHz(16804.5kHz)?	☐	☐

If not, indicate watch hours in the following table.

3 Indicate details of HF stations

NAV/ MET Area	Name and position [Latitude, Longitude] of stations	MMSI	Date of operation	Purpose (PC or SD or PS ?)*	Operational frequency band					Watch hours (24 hours ?)	RCC Associated
					4	6	8	12	16		

* PC = "Public Correspondence" only, SD = "Distress and Safety" only, PS = Both "Public Correspondence" and "Safety and Distress".

ANNEX 4

INMARSAT facilities

1 Does your Administration operate an INMARSAT Coast Earth Station(CES) ? YES ☐ NO ☐ Is it operational now ? YES ☐ NO ☐
If not operational now, indicate the date of operation in the following table.

2 Indicate details of INMARSAT CES

Name of CES	Position	Ocean Area*	Service provided (Date of operation)				RCC Associated
			INMARSAT-A	INMARSAT-B	INMARSAT-C	INMARSAT-E	

* AOR-E(Atlantic Ocean Region - East) , AOR-W(Atlantic Ocean Region - West), IOR(Indian Ocean Region) or POR(Pacific Ocean Region)

ANNEX 5

Rescue Co-ordination Centres(RCCs) using Ship Earth Stations(SESs)

1 Does your Administration intend to commission a ship earth station for RCC operation ? ☐ YES ☐ NO

Is it operational now ? ☐ YES ☐ NO

If not operational now, indicate the date of operation in the following table.

2 Indicate details of SES

Name of RCC	Position	Date of operation	SES details		
			INMARSAT I.D.	Type of SES(1)	Ocean Regions accessed(2)

(1) INMARSAT-A, INMARSAT-B, or INMARSAT-C
(2) AOR-E, AOR-W, IOR, or POR

ANNEX 6

NAVTEX Service on 518 kHz

1 Does your Administration operate NAVTEX Service on 518 kHz ? YES ☐ NO ☐ Is it operational now ? YES ☐ NO ☐
If not operational now, indicate the date of operation in the following table.

2 Indicate details of NAVTEX stations

NAV/MET Area	Name of NAVTEX station	Position	Range* (NM)	Transmitter identification charactor (B1)	Transmission times(UTC)	Language	Date of operation

* Refer to resolution A.801(19). See appendix.

4209.5 kHz NAVTEX Service

1 Does your Administration operate an 4209.5 kHz NAVTEX Service ? YES ☐ NO ☐ Is it operational now ? YES ☐ NO ☐
If not operational now, indicate the date of operation in the following table.

2 Indicate details of 4209.5 kHz NAVTEX stations

NAV/MET Area	Name of NAVTEX station	Position	Transmitter identification charactor (B1)	Transmission times(UTC)	Language	Date of operation

APPENDIX

IMO RESOLUTION A.801(19) , annex 4, paragraph 3

Criteria for use when providing a NAVTEX service

The ground-wave coverage may be determined for each coast station by reference to Recommendation ITU-R PN.368-7 and CCIR Report 322 for the performance of a system under the following conditions:

Frequency	- 518 kHz
Bandwidth	- 500 Hz
Propagation	- ground wave
Time of day & Season	- (Administration should determine time periods in accordance with NAVTEX time transmission table(NAVTEX Manual, figure 3) and seasons appropriate to their geographic area based on prevailing noise level.)
Transmitter power & Antenna efficiency	- (The range of a NAVTEX transmitter depends on the transmitter power and local propagation conditions. The actual range achieved should be adjusted to the minimum required for adequate reception in the NAVTEX area served, taking into account the needs of ships approaching from other areas. Experience has indicated that the required range of 250 to 400 nautical miles can generally be attained by transmitter power in the range between 100 and 1,000 W during daylight with a 60 % reduction at night.)
RF S/N in 500 Hz bandwith	- 8 dB(Bit error rate 1 x 10^{-2})
Percentage of time	- 90

Full coverage of NAVTEX service area should be verified by field strength measurements.

ANNEX 7

International SafetyNET Service

1 Does your Administration intend to broadcast MSI through the International SafetyNET Service ? YES ☐ NO ☐ Is it operational now ? YES ☐ NO ☐
If not operational now, indicate the date of operation in the following table.

2 Indicate detail of International SafetyNET Service

NAV/MET Area	Type of MSI	Coast Earth Station		Ocean Area(1)	Area covered(2)	Broadcast schedule(UTC)	Date of operation
		Name	Country				
	NAV						
	MET						
	SAR						
	Coastal Warning				(3)		

(1) AOR-E, AOR-W, IOR, or POR
(2) Service area covered in NAV/MET information
(3) Provide a map indicating Area covered and B1 charactors

ANNEX 8

HF Narrow Band Direct Printing(NBDP) MSI Broadcast Service

1 Does your Administration intend to broadcast MSI through HF NBDP ? ☐ YES ☐ NO Is it operational now ? ☐ YES ☐ NO
If not operational now, indicate the date of operation in the following table.

2 Indicate details of HF NBDP MSI Broadcast Service

Name of station	Position	Frequency Band	Schedule	Date of operation
		4 MHz (4210 kHz)		
		6 MHz (6314 kHz)		
		8 MHz (8416.5 kHz)		
		12 MHz (12579 kHz)		
		16 MHz (16806.5 kHz)		
		19 MHz (19680.5 kHz)		
		22 MHz (22376 kHz)		
		26 MHz (26100.5 kHz)		

ANNEX 9

COSPAS-SARSAT MCC and LUT

1 Does your Administration intend to operate COSPAS-SARSAT ground facilities ? YES ☐ NO ☐ Is it operational now ? YES ☐ NO ☐
If not operational now, indicate the date of operation in the following table.

2 Indicate details of the COSPAS-SARSAT facilities

MCC			LUT			RCC Associated
Location	Designator	Date of operation	Location	LEO or GEO ?	Date of operation	

ANNEX 10

EPIRB Registration Data

EPIRB Type permitted

406 MHz EPIRB: YES ☐ NO ☐ L-Band EPIRB: YES ☐ NO ☐

406 MHz EPIRB

1 MID-Numbers(country codes) assigned to 406 MHz EPIRBs ?: _____

2 406 Mhz coding schemes currently used by the country:

YES NO
Serial protocol: ☐ ☐
MMSI: ☐ ☐
Radio call sign: ☐ ☐

3 Database for 406 MHz EPIRBs:

- Address: _____

_____

YES NO
Open 24 hours a day, all days of the year ? ☐ ☐
If not, specify the opening hours(UTC), days etc: _____

- Telephone No. for database information: _____
- Telefax No. for database information: _____
- Telex No. for database information: _____
- AFTN No. for database information: _____
- Electronic Mail ID for database information: _____

4 How often does your Administration update the database ? _____

ANNEX 11

Maritime Mobile Service Identities(MMSI)

1 MID-Numbers(country codes) assigned to equipment other than 406 MHz EPIRBs ?: _____

2 National database for MMSI number:

- Same database as for 406 MHz EPIRBs ? YES ☐ NO ☐

If not, fill in the following information:

- Address: _____

_____

Open 24 hours a day, all days of the year ? YES ☐ NO ☐

If no, specify the opening hours(UTC), days etc: _____

- Telephone No. for database information: _____
- Telefax No. for database information: _____
- Telex No. for database information: _____
- AFTN No. for database information: _____
- Electronic Mail ID for database information: _____

3 How often does your Administration update the national database ? _____

4 How often does your Administration update the ITU database ? _____